

# **MODIS TECHNICAL TEAM MEETING**

**November 21, 1996**

The MODIS Technical Team Meeting was chaired by Robert Murphy. Present were Dorothy Hall, Steve Platnick, David Herring, Wayne Esaias, Richard Weber, Bill Barnes, Ed Masuoka, and Locke Stuart.

## **1.0 SCHEDULE OF EVENTS**

**October 15**                      **Quarterly Reports were due to Barbara Conboy**  
{Other events upcoming??????}

## **2.0 MINUTES OF THE MEETING**

### **2.1 MODIS Project Reports**

Weber announced that integration of all of the Protoflight Model (PFM) electronics should be complete in about a week. The Main Electronics Module (MEM) is the only outstanding electronic subsystem to be integrated.

Weber reported that SBRS' subcontractor has started fabricating the beryllium mainframe for the next MODIS instrument for the EOS PM-1 spacecraft.

Weber told the team that the latest scheduling exercise at SBRS is to determine how to get to the environmental tests—such as vibration testing—of the flight model this year. He said SBRS is considering moving vibration tests up from January 1997 to December 1996. This issue is receiving prompt consideration from the EOS Project Office; it is hoped that the issue will be resolved tomorrow. Weber explained that the idea is to shift some tests until after vibration tests are conducted during the Christmas holidays. This test has a relatively short staff requirement, so it lends itself well to this time period. Weber also pointed out that conducting the riskier tests early will remove lesser priority tests from the critical path and will allow more time to correct any problems that may arise.

Barnes stated that the possibility of SBRS conducting early spectral measurements was discussed at the recent Science Team Meeting. He asked if that is still a possibility. Weber responded that spectral measurements are still on schedule; however, they may get slipped some if the vibration testing gets moved up to December.

Weber reported that SBRS is evaluating again the temperature impact that the partially delaminated spaceview door will have on the cooler. According to SBRS reports, even with the current amount of delamination, the cooler temperature can be controlled below 80 K. The concern is that the spaceview door is highly specular, so some sunlight and emission from the door will likely

hit the cooler and warm it some if the door deforms. Weber will report more details as they become available.

Weber announced that both the SRCA and SDSM are on the MODIS instrument and are operating.

Murphy asked if SBRS will conduct an end-to-end functional test of the focal planes by the end of the week. Weber responded affirmatively, stating that SBRS now has a working end-to-end system.

## **2.2 ATBD Review Update**

Murphy reported that the ATBD review went well and that, for the most part, the critiques were benign. He noted that some of the written reviews were harsher than the verbal interactions. In other words, some tough grades were given that were not in evidence during the verbal review.

## **2.3 Ocean Group Reports**

Esaias reported that MOCEAN is planning to hold a discipline meeting in Miami in January in conjunction with the thermal infrared reviews of the MODIS instrument. Also, at that meeting the group will begin Quality Assurance (QA) planning for its upcoming spring cruises.

Esaias announced that the new Marine Optical Buoy (MOBY), recently deployed, is now operational and that Dennis Clark is pleased with the data collected so far.

For those interested Science Team members, Esaias announced that the SeaWiFS Project Office is now reading in OCTS coastal Level 0 data. The team also plans to get data from Hawaii and make them available.

## **2.4 Atmosphere Group Reports**

Platnick told the team that the Atmosphere Group is meeting tomorrow to discuss finalizing its QA Plan, which has been in the works for the last couple of weeks. He noted that it will differ from the Land Group's QA parameters.

The group also plans to discuss its Level 2 and Level 3 software plans.

## **2.5 Snow and Ice Products**

Hall announced that there will be an *ad hoc* committee meeting on the MODIS snow and ice data products on Monday, Nov. 25, at GSFC.

## **2.6 SDST Reports**

Masuoka reported that he has been meeting with ECS personnel to discuss the production rules governing how the Product Generation Executables (PGEs) will be run. Masuoka has asked the GSC Science Software Transfer Group (SSTG) to produce a short write-up for each of the MODIS software packages, that will be

delivered by the Science Team to SDST, which provides a brief description of how SSTG believes the software operates and what production rules are relevant to its execution.

Masuoka stated that ECS promised to deliver a review package for their production replan. Final comments on the replan will be due from the Science Team on Dec. 5. Murphy suggested that Masuoka host a meeting attended by each discipline leader so that each can contribute to a list of top concerns that the team can all agree upon.

#### 2.6.1 Release A and B

Masuoka noted that the Science Team has requested that SDST freeze software interfaces for Release B in December, but that the Release B toolkit will not be delivered until April 1997 (at the earliest).

Version 2 software, which runs on Release B, will be delivered from the Science Team to SDST from March through July 1997. The Version 2 requirements document will be baselined in December 1996.

#### 2.6.2 Production Phasing Plans

Masuoka reported that Al Fleig is working with MODLAND on the phasing of production of its data products in the post-launch period. Once this phasing plan is worked out, SDST hopes to use it as a potential model for overall MODIS production in the post-launch period.

#### 2.6.3 Contingency Planning

Regarding contingency planning, Masuoka said he attended the recent GSFC DAAC Advisory Panel Meeting and learned that many outside users were unaware that EOSDIS will deliver less than the full set of products shortly after launch. It only recently became clear to DAAC personnel that the full set of processing software won't come to them until months before launch. The DAAC Advisory Panel suggested that the Earth science community as a whole would probably prefer a sampling of products at launch, rather than the full suite of Level 1B global products.

### **2.7 MAST Reports**

Stuart announced that MAST is going ahead and distributing FY97 funding even though we do not yet have an approved budget.